827-17

CHICAGO
PNEUMATIC TOOL
COMPANY
STONE TOOLS



CHICAGO - NEW YORK



Catalogue No. 37

STONE TOOLS

Chicago Pneumatic Tool Co.

Fisher Building - Chicago 50 Church Street - New York

BRANCH OFFICES ALL OVER THE WORLD

March 1, 1912

Chicago Pneumatic Tool Co.

General Office, Fisher Bldg. CHICAGO Eastern Office, No. 50 Church St. NEW YORK

BRANCH OFFICES

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Seattle: 122 King St.
Spokane: Cor. R. R. and Wall St.
St. Louis: 1822-24 Locust St.
St. Paul: Pioncer Press Bldg.
San Francisco: 71 First Street

FOREIGN

CANADA: Montreal, Canadian Pneumatic Tool Co.
The Holden Co., Ltd., Montreal, Toronto, Winnipeg.
Vancouver, Holden Co., Ltd., 429 Pendar St.

NORTHERN
(Sonora and Chihuahua), H. A. Carpenter & Bro.,

MEXICO: { El Paso, Texas.

GREAT BRITAIN: { London, The Consolidated Pneumatic Tool Com-

SPAIN:
PORTUGAL:

pany, Ltd., 9 Bridge Street, Westminster, S. W.

Paris, Anciens Etablissement Glaenzer & Perreaud,

BELGIUM: 18-20 Faubourg du Temple.

Brussels, The Consolidated Pneumatic Tool Co., Ltd.

GERMANY: Strussels, The Consolidated Pneumatic Tool Co., Ltd.

AUSTRIA
HUNGARY:
BALKAN
STATES:
NORWAY:

Berlin, Internationale Pressluft & ElektricitatsGesellschaft m. b. H. Berlin, U. 54,
Weinmeisterhoff, Weinmeisterstrasse No. 14.

RUSSIA:

St. Petersburg, Pneumatic Tool Company,
W. O. 18 Line, 27.

INDIA: Bombay, Consolidated Pneumatic Tool Co., Ltd.,
Rampart Row, Fort.
JAPAN: Yokobama, Kisto, Kaba, Tabia, E. W. Harra,

JAPAN: Yokohama, Kioto, Kobe, Tokio, F. W. Horne.

ISLANDS: Manila, F. L. Strong, 34-40 Calle Echague.

AUSTRALIA: Sydney, Henry W. Peabody & Co.

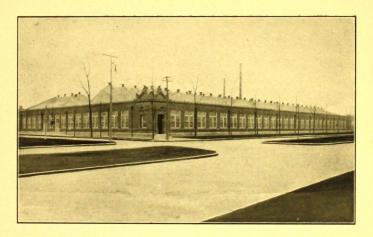
NEW ZEALAND: Wellington, Henry W. Peabody & Co.

SO. AMERICA: Rio Janeiro, Brazil, Guinlee & Co.

Buenos Aires, Argentina, Evans, Thornton & Co.

SOUTH AFRICA:

Johannesburg, The Consolidated Pneumatic Tool Co.
Ltd., 25-27 London House, Loveday St. (P. O. Box 4921).



FACTORY AT DETROIT, MICH.

Where we make the Keller and Boyer Stone Tools and Surfacers

We also have factories at Cleveland, Ohio, Chicago Heights, Ill., and Franklin, Pa., where a full line of Pneumatic and Electric Tools, Plug Drills, Rock Drills, Air Compressors, Gasoline Railway Motor Cars and Commercial cars are manufactured.

Catalogues covering any or all of these will be mailed on request to nearest branch office.

Catalogue No. 37

March 1, 1912

KELLER STONE TOOLS

The KELLER STONE TOOLS were designed and are made under conditions that have developed the greatest line of pneumatic tools ever offered to the industrial world. The inventive genius of Mr. Julius Keller, coupled with the superior manufacturing facilities of the CHICACO PNEUMATIC TOOL COMPANY, has produced in the KELLER STONE TOOL, the simplest, yet most durable, efficient and economical stone tool made.

Mr. Keller's long experience with stone working machinery and his knowledge of the conditions under which stone tools are used, led him to seek simplicity of construction as the vital element in a successful tool. In the Keller Stone Tool, a minimum number of working parts is obtained—cylinder, piston and inlet piece being the only parts required. There are no latch pins, springs or plugs to get out of order and cause frequent breakdowns.

All parts are made from the best material possible to obtain, and are treated by the most up-to-date processes to retard wear and promote durability.

All parts are made absolutely interchangeable, and the accuracy with which parts so made can be fitted, insures the greatest possible economy in the consumption of air.

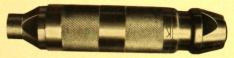
The combination of these superior elements results in a degree of efficiency found only in the KELLER STONE TOOLS.

They are made in four sizes, sufficient to cover all the requirements from the finest chasing and most delicate carving to the heaviest cutting, peining and bushing. For detailed specifications, see following page.

KELLER PNEUMATIC VALVELESS TOOLS







9-16 in. KELLER Pneumatic Carving Tool

(Code - Qua)

Used for chasing and finishing fine and delicate carving on marble and onyx.

3-4 in. KELLER Pneumatic Carving Tool

(Code — Quab)

Used for carving, lettering and chasing on granite, marble and other stone.

1 in. KELLER Pneumatic Carving Tool

(Code - Quacha)

Used for architectural and monumental carving and general stone work. Where only one tool is installed, we recommend this size.

1 1-4 in. KELLER Pneumatic Carving Tool

(Code - Quadrat)

Used for heavy work, mouldings, margins, peining and bushing.

SPECIFICATIONS

| Size | Code | Diameter Piston | Length of Stroke | Blows per Minute, 100-lb.Pressure | Cubic Feet Free Air per Minute, 80-lb. Pressure | Size Hose Connection |
|-------|---------|--------------------|---------------------|---|--|-------------------------|
| 9 " | Qua | 16" | 2" | 10800 | 6 | |
| 34" | Quab | 3/4" | 1/2" | 7300 | 7 | 14" |
| 1 " | Quacha | 1 " | 1/2" | 5800 | 8 | 14" |
| 11/4" | Quadrat | 11/4" | 16" | 4820 | 10 | 1/4" |

| Size | Size Power | Length | Tool 8 | Shank | Net Weight. | Shipping | |
|---------------------------|--------------------------------------|--------------------|------------------------------|---|--------------|---------------|--|
| | Test | Overall | Overall Diameter | | Lbs. | Weight, Lbs. | |
| 16" 34" 1 " 114" | .00235 .00368 .03246 .04075 | 53%" 7 " 73%" 91%" | 1/2" 1/2" 1/2" 1/2" | 2 * 2 * 2 * 2 * 2 * 2 * 2 * 2 * 2 * 2 * | 1 1½ 3 | 2 2 ½ 4 | |

Note—The Power test of tool, referred to above is a decimal representing the standard of efficiency adopted by our engineering department. It is obtained by driving small sets of various dimensions into a piece of Norway iron. The decimal, which in a general way, determines the relative power of the tools, is derived from the formula $\frac{AD60}{T}$ where A=area of impression; D=depth of impression;

BOYER VALVED STONE TOOLS

For many classes of work, especially marble and soft stone, some operators prefer the BOYER VALVED STONE TOOLS to the Keller Valveless Stone Tools. They are patterned after the well known Boyer Hammer, which originally gave, and now gives the CHICAGO PNEU-MATIC TOOL COMPANY its prestige in the field of labor saving machinery. The chief virtue of the BOYER VALVED STONE TOOL lies in the complete control over the amount of air that is permitted to enter the tool, and the consequent accurate regulation of blow. The operation of the piston is controlled by a valve, which insures the greatest economy of air consumption, and reduces vibration to a negligible quantity.

We find that on many classes of work, especially marble and soft stone, these tools give better results than the valveless type. They can be furnished with or without Pistol Grip Handles.

These machines are fitted with a Throttle Valve which enables the operator to have full control over the tool at all times, so that he can increase or decrease the power of the blow.

This style of tool has less vibration and consumes less air than the Valveless type.

All possibility of wear has been fully considered and we have reduced this to a minimum.

They are made in four sizes, covering the widest range of tools of their character, and can be furnished with either Pistol Grip or Straight Handle as preferred.

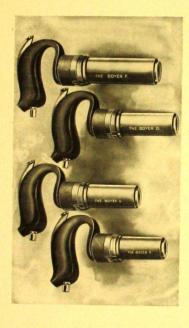
For detailed specifications see below.

SPECIFICATIONS

| Code | | O: | Size Diam. | | Blows | Cubic Feet Free | Feet Size | Power | Length | Weight | |
|------------|------------|------|------------|--------|---------------|-----------------------|---------------|--------|---------|-------------|-----------------------|
| Round | Hexagon | Size | Piston | Stroke | Per Minute | Air Per Minute | Hose Conn. | | Overall | Net Lbs. | Ship- ping Lbs. |
| Abjection | Abjectness | F | 15 16 | 11/4" | 2200 | 8 | 1/4" | .02004 | 10 " | 6 1/2 | 10 |
| Abjugate | | 0 | 11 | 3/4" | 3200 | 7 | 1/4" | .00890 | 83/4" | 4 1/2 | 8 |
| Abjuration | | U | 5/8 | 1/2" | 3800 | 6 | 1/4" | .00185 | 73/= | 41/2 | 8 |
| Abjuring | | X | 1/2 | 1/2" | 3660 | 5 | 1/4" | .00093 | 734" | 4 1/2 | 8 |
| Ablander | Ablaqueate | FF | 15 | 114" | 2200 | 8 | 1/4" | .01673 | 73/4" | 5 | 81/2 |
| Ablation | | 00 | 18 | 34" | 2700 | 7 | 1/4" | .00743 | 61/4" | 3 1/2 | 7 |
| Ablative | | UU | 5/8 | 1/2" | 3600 | 6 | 1/4" | .00112 | 51/2" | 31/2 | 7 |
| Ablaze | | XX | 1/2 | 1/2" | 3500 | 5 | 1/4" | .00057 | 51/2" | 31/2 | 7 |

Note—Stone Hammers always furnished with round bushing, except F and FF with which either round or bexagon may be furnished. The F Hexagon Hammer is size and style best adapted for Buhr Stone work.

BOYER VALVED STONE TOOLS



BOYER VALVED STONE TOOLS FITTED WITH PISTON GRIP HANDLE

SIZE F

Used for heavy cutting, roughing, peining and bushing.

SIZE O

Used for heavy carving, etc.

SIZE U

Used for cutting raised letters, carving, etc.

SIZE X

Used for carving, tracing and engraving.

BOYER VALVED STONE TOOLS FITTED WITH STRAIGHT HANDLE

SIZE FF

Used for heavy cutting, roughing, peining and bushing.

SIZE OO

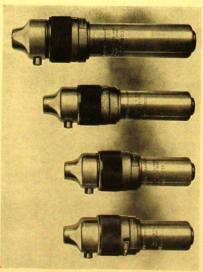
Used for heavy carving, etc.

SIZE UU

Used for cutting raised letters, carving, etc.

SIZE XX

Used for carving, tracing and engraving.



KELLER PNEUMATIC SURFACERS

Surfacing Machines are no longer an experiment, but are an indispensable equipment to the modern stone yard.

We manufacture the large Crane Surfacer fitted with our Plain Stroke Surfacing Tool, known as our size No. 3, and the Junior Surfacer, fitted with our Junior Plain Stroke Surfacing Tool, known as our size 2X. The relative merits of these machines are explained in the following pages.

The frames are built according to the best Crane and construction practice, and every part is of unusual strength and weight, which is essential in holding the Pneumatic Tool perfectly rigid.

In designing these machines, we have carefully considered the work of the operator, and therefore have perfected our machines so that they are as easily operated as the smaller tools.

SPECIFICATIONS

SURFACERS ONLY WITHOUT FRAME OR EQUIPMENT

| Code | Size | Diameter Piston | Length Stroke | Blows per Minute, 100 Lbs. | Cubic Feet Free Air per minute | Hose | Length Overall Without Chisel | | Shipping Weight (Lbs.) |
|-------------------------|------|--------------------|------------------|----------------------------------|--------------------------------------|----------|--|----------|------------------------------|
| Qualustric Quamadros | | | 2* 3* | 1240 900 | 45 80 | ½" ½" | 15 % " 19 ½ " | 35 65 | 43 80 |

SURFACERS COMPLETE WITH FRAME AND EQUIPMENT

SURFACER FRAMES ONLY

| Code | $\begin{array}{c c} \text{Code} & \text{Size} & \begin{array}{c} \text{Net} \\ \text{Weight} \\ \text{(Lbs.)} \end{array} & \begin{array}{c} \text{Shipping} \\ \text{Weight} \\ \text{(Lbs.)} \end{array} & \begin{array}{c} \text{Code} \end{array}$ | Code | Code Size | Length or Reach of | Column | | Weight, Lbs. | | | |
|---------------------|--|-------------|-----------|----------------------|---------|-------------|--------------|-------------|-------------|-------------|
| | | | Arm | Diam. | Height | Net | Shipping | | | |
| Qualabra Qualeda | 2X 3 | 433 1730 | | Qualitate Qualoma | 2X 3 | 54" 108" | 3" 5" | 84" 123" | 354 1565 | 508 2265 |

EQUIPMENT

| Code | Description |
|------------|---|
| Quancitron | Pein (4-point) for No. 2X. |
| Quandary | Bush Chisel for No. 2X (11/4" opening. |
| Quanetta | Extra Blades for same (1 1/4" opening.) |
| Quanform | Pein (4-point) for No. 3. |
| Quangrab | Bush Chisel for No. 3 (11/2" opening.) |
| Quanheath | Extra Blades for same (11/2" opening.) |
| Quanide | Bush Chisel for No. 3 (2" opening.) |
| Quanjerk | Extra Blades for same (2" opening.) |
| Quankiln | Sharpening Stake for Surfacer Peins. |
| | (Give size of stake hole) |

Note-Shipping weights are approximate.

Regular Equipment for No. 2X consists of the following: 3 Bush Chisels with one chisel handle, 3 Pein Chisels, I Oil Can, 1 Exhaust Hose, 1 25-ft. pc. 34" Plain Hose with cock and nipple. Code word for complete equipment: Quanbell.

Regular Equipment for No. 3 consists of the following: 3 Bush Chisels with one chisel handle, 3 Pein Chisels, 1 Oil Can, 1 Exhaust Hose, 1 25-ft, pc. 3/4 Plain Hose with nipple, 1 13-ft, pc. 3/4 Plain Hose with cock and nipples. Code word for complete equipment: Quanacre.

Chisel Shanks for 2X: 11/4" dia. by 3 1/4" long; for No. 3: 11/4" dia. by 5" long.

Note—When ordering Bush Chisels, specify number of blades and bolt holes, and size of opening.



KELLER 2X JUNIOR SURFACER

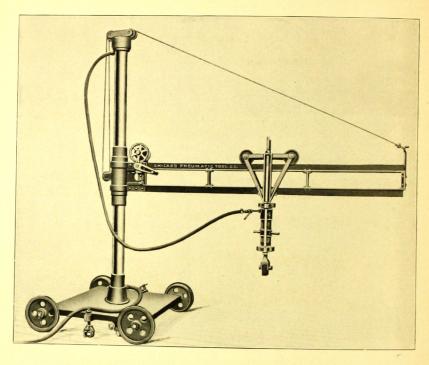
(Code — Qualabra)

This machine is designed to meet the requirements of the small stone yard or as an auxiliary to the large Crane Surfacer.

The upright Column is supported by an Iron Base, so that it is held rigid. The Arm which carries the Pneumatic Tool travels through the Carriage which rolls up and down Column, all bearings are of roller type and adjustable to wear in all directions. This machine is built on practical lines and will stand hard usage. The construction is very simple and all bearings are liberal.

The Pneumatic Tool is of the same type as our large Crane Surfacer and has about three-fifths of the power.

This machine is portable, two men being able to move it from place to place, saving the trouble of bringing the stone to the machine.



KELLER No. 3 CRANE SURFACER

(Code - Qualeda)

For the dressing of granite, this machine has met with unlimited success, and is an indispensable equipment to the modern stone cutting plant.

The machine is built for hard usage, such as these machines are subjected to. The construction is very simple, consisting of a Crane Tool Carriage, supported by a Standard and Base. The machine is portable and can easily be moved from place to place. We advise that the machine be set on a level track of railroad iron spiked to timbers, so that the Standard is in a vertical position holding the arm at right angles. This insures a perfectly level track for the Traveling Tool Carriage to run on, and gives the operator full control over the tool at all times, enabling him to cut a level surface free from bumps or hollows.

The Standard of Machine is fitted into an Air Receiver having a Flue running the full length, with our improved Heating Furnace at lower end. This takes the moisture out of the air and heats it before entering Pneumatic Tool. By this method the air is kept from freezing and at the same time is expanded, giving the greatest efficiency.

Under proper conditions, this machine will accomplish the work of from ten to twenty men working by hand

STONE TOOL AND SURFACER ACCESSORIES



Granite Lettering Chisels

 3%" Steel
 16" Shank
 5%" Steel
 12" Shank
 34" Steel
 12" Shank

 15" Steel
 15" Steel
 5%" Steel
 5%" Shank
 34" Steel
 5%" Shank



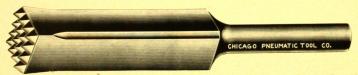
Granite Points

1/2" Steel 1/2" Shank | 5%" Steel 1/2" Shank



Double Blade Chisel for Granite

58" Steel 1/2" Shank | 58" Steel 58" Shank | 34" Steel 58" Shank



Pein Chisel for Granite

4 Teeth 1/2" Steel 1/2" Shank | 9 Teeth 3/4" Steel 1/2" Shank | 9 Teeth 3/4" Steel 1/2" Shank | 16 Teeth 3/4" Steel 3/2" Shank | 16 Teeth 3/4" Steel 3/2" Shank | 16 Teeth 3/4" Steel 3/2" Shank | 16 Teeth 3/4" Steel 3/4"



Ripping Tools - Single Row

4 Teeth 1/2" Steel 1/2" Shank | 5 Teeth 1/2" Steel 1/2" Shank | 6 Teeth 1/2" Steel 1/2" Shank | 5 Teeth 1/2" Steel 1/2" Shank | 6 Teeth 1/4" Steel 1/4" 1/4" S



Ripping Tools - Double Row

6 Teeth 3% Steel 12 Shank 8 Teeth 5% Steel 12 Shank 10 Teeth 3% Steel 12 Shank 6 Teeth 3% Steel 13 Shank 8 Teeth 34 Steel 12 Shank 10 Teeth 34 Steel 14 Shank 6 Teeth 34 Steel 34 Shank 8 Teeth 34 Steel 5% Shank 10 Teeth 34 Steel 5% Shank



Granite Tool Bush Chisel

No. 1, 3% opening (any number of cuts) 1½ shank No. 3, 3% opening (any number of cuts) 3½ shank No. 3, 3% opening (any number of cuts) 3½ shank No. 3, 3% opening (any number of cuts) 3½ shank No. 4, 3½ opening (any number of cuts) 3½ shank No. 4, 4½ opening (any number of cuts) 3½ shank No. 4, 4½ opening (any number of cuts) 3½ shank No. 4, 4½ opening (any number of cuts) 3½ shank No. 4, 4½ opening (any number of cuts) 3½ shank No. 4, 4½ opening (any number of cuts) 3½ shank

STONE TOOL AND SURFACER ACCESSORIES

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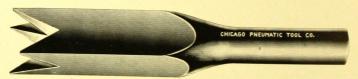
Marble Lettering Chisel

| 1/2" Steel 3/8" Bl 1/2" Steel 5/8" Bl 1/2" Steel 3/4" Bl | | | | | | 1 1/4" Blade 1 1/2" Blade | 1/2" Shank 1/2" Shank |
|--|--|--|--|--|--|------------------------------|--------------------------|
|--|--|--|--|--|--|------------------------------|--------------------------|



Marble Tooth Chisel

| 1/2" Steel 3 1/2" Steel 5 1/2" Steel 3 | | | | | | | 1 1/4" Blade 1 1/2" Blade | 1/2" Shank 1/2" Shank |
|--|--|--|--|--|--|--|------------------------------|--------------------------|
|--|--|--|--|--|--|--|------------------------------|--------------------------|



Surfacer Four-Point



Surfacer Bush Chisel



Sharpening Stake for Surfacer Tools

In ordering give size of Stake Pole



Hose Nipple

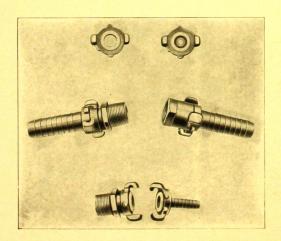




Surfacer Coupling Nipple



Plug Driller Coupling Nipple



CHICAGO HOSE COUPLER

The Chicago Hose Coupler is the only universal coupler yet devised. It differs from all other hose couplers in so far as neither half is male nor female but a combination of both; therefore a quarter inch hose can be coupled to an inch pipe, three-quarter inch hose to an inch pipe, one-quarter inch hose to one inch hose — or in other words, any size will couple to any other size, whether it be larger hose or pipe, as will be observed by reference to illustrations herewith. They are manufactured for male thread pipe size, female thread pipe size, as well as for hose from ½ inch to 1 inch.

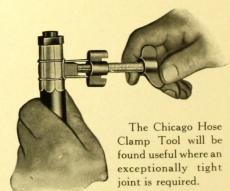
⁷/₁₆ inch, ½ inch, ¾ inch or 1 inch Special High Pressure Pneumatic Hose, in 10 ft., 12½ ft., 25 ft. or 50 ft. lengths



3/4 inch to 21/2 inch Flat Wire Wound High Pressure Hose in 25 ft. or 50 ft. lengths



The Sure Grip Hose Band. We can furnish them for any size hose.

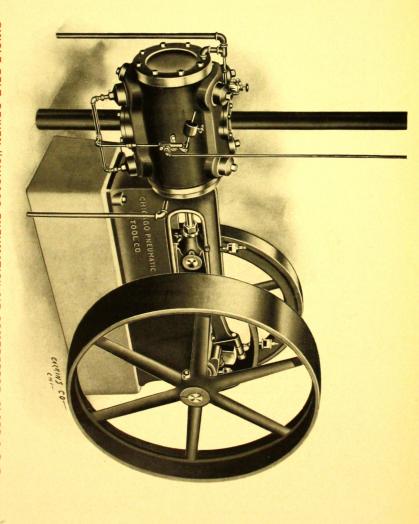


OIL

Airoilene is manufactured especially for us and recommended for use with all Pneumatic Tools of our manufacture. After an exhaustive test of the many kinds of lubricants, we found it necessary to use an oil that would not gum, heat, decompose, oxidize or clog. As Pneumatic Tools are fitted very closely, a heavy oil cannot be used, but it must have richness, absolute purity and adhesion. Airoilene embodies all these qualities.

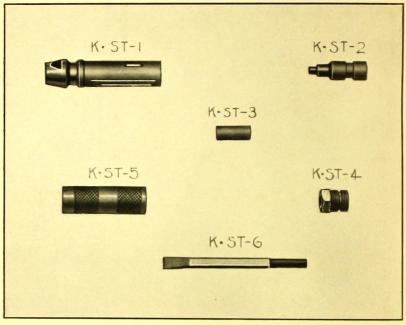
We will guarantee that tools oiled regularly with this oil will give fifty per cent less trouble than if lubricated with oils not expressly adapted for this purpose. Tools should be oiled every hour when in constant use.

This oil is sold in one, two, five and ten gallon cans and in one-half and one barrel lots. We will be glad to quote you on any quantity you may need.



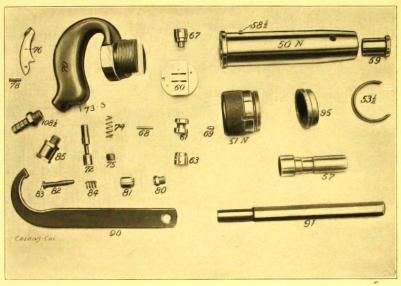
Suttable for 100 pounds air pressure. Having cylinder and heads water jacketed and provided with automatic unloading device. SINGLE BELT-DRIVEN "CHICAGO PNEUMATIC" AIR COMPRESSOR CLASS G.S. B.

REPAIR PARTS



REPAIR PARTS FOR KELLER 9-16 IN. VALVELESS STONE TOOL

| | | (Price | es on Application) |
|--|---|-----------------------|---|
| CODE | Symbol No. | No. Pieces | Description |
| Karaato Karaffe Karagan Karamle Karasin | ቶሮ KST-1 ቶሮ KST-2 ቶሮ KST-3 ቶሮ KST-4 ቶሮ KST-5 | 1 1 1 1 | Cylinder. Piston. Chisel Bushing. Inlet Piece Outside Cylinder. |
| F | REPAIR PARTS F | OR KEI | LLER 3-4 in. VALVELESS STONE TOOL |
| Karatas Karatch Karawan Karbeel Kardoes | 34" KST-1 34" KST-2 34" KST-3 84" KST-4 34" KST-5 | 1 1 1 1 | Cylinder. Piston. Chisel Bushing. Inlet Piece. Outside Cylinder |
| | REPAIR PARTS | FOR KE | ELLER 1 IN. VALVELESS STONE TOOL |
| Karfiol Kargsam Kariger Karkant Karmout | 1" KST-1 1" KST-2 1" KST-3 1" KST-4 1" KST-5 | 1 1 1 1 1 | Cylinder Piston. Chisel Bushing. Inlet Piece Outside Cylinder. |
| R | EPAIR PARTS FO | R KELI | LER 1 1-4 IN. VALVELESS STONE TOOL |
| Karnhond Karnbuis Karnpols Karntril Karpfens | 1¼" KST-1 1¼" KST-2 1¼" KST-3 1¼" KST-4 1¼" KST-5 | 1 1 1 1 1 | Cylinder |



REPAIR PARTS FOR "F" HAMMER (Prices on Application)

| CODE | Symbol No. | No. Pieces | DESCRIPTION |
|------------|-------------------|---------------|---|
| gony | F-50 Comp. | 1 | Cylinder, Round or Hexagon |
| gracillo | F-51 | 1 | Cylinder Coupling Sleeve |
| gramador | F-52 Comp. | 1 | Lock, complete (52, 53, 54, 55) For |
| gramunt | F-52 Old Style | 1 | Cylinder Coupling Sleeve Lock |
| grandir | F-53 Old Style | 1 | Cylinder Coupling Sleeve Lock Spring with ole style L |
| grarian | F-53 ½ | 1 | Lock Sleeve Spring Clip |
| grarianly | F-54 Old Style | 1 | Cylinder Coupling Sleeve Lock Tip |
| gravante | F-55 Old Style | î | Cylinder Coupling Sleeve Lock Screw with old |
| greeably | F-57 | , | Piston. style Le |
| greet | F-58 | 1 | Lock Sleeve |
| grertal | F-58 1/2 | 1 | Lock Sleeve Key |
| grestic | F-59 Round | 1 | Chisel Sleeve (Round) |
| gricultor | F-59 Hex. | 1 | Chisel Sleeve (Hexagon) |
| grifolio | F-60 Comp. | 1 | Valve complete (F-60N, 61N, 63½, 68, 69) |
| gripaume | F-60N only | 1 | Valve Case |
| gronomy | F-61N | 1 | Valve |
| grostis | F-63 | 1 | Check Valve Case |
| guaderas | F-63 1/2 | i | Valve Case Chamber Head |
| gue | F-68 | 9 | Pins for F-63 |
| guish | F-69 | 2 2 | Dowel Pins for F-60 |
| guishness | F-70 Comp. | ĩ | Handle, complete (70 to 78, inclusive) |
| hurir | F-70-73 | i | Handle Forging with Tube |
| hmundan | F-72 | i | |
| lidance | F-73 | î | Throttle Valve |
| Aidless | F-74 | 1 | Throttle Valve Spring |
| ligle | F-75 | 1 | Throttle Valve Plug |
| Aignan | F-76 Comp. | 1 | Throttle Lever, complete (76-7-8) |
| Aigulet | F-76-7 | i | Throttle Lever |
| Aileron | F-78 | 1 | Throttle Lever Pin |
| Ailing | F-80 Comp. | 1 | Regulator, complete |
| Ailment | F-80 | 1 | Regular Nut |
| Ailmoney | F-82-3 | 1 | Regulator Screw and Head |
| | 32 0 | | All other parts of Regulator same as for No. 3 Ham |
| Ailmore | 3-85 Comp. | 1 | Strainer (same as for No. 3 Hammer) |
| Aim | F-90 | 1 | Spanner Wrench |
| Aimlessly | F-91 Round | 1 | Chisel Blank (Round), ½ inch Quar. Oct |
| Airball | F-91 Hex. | 1 | Chisel Blank (Hexagon) 1/2 inch Quar. Oct |
| Airbudding | F-91 Rd. Special | i | Chisel (Round Shank) finished for buhr stone |
| Airbuff | F-91 Hex. Special | 1 | Chisel (Hexagon Shank) finished for buhr stone |
| | | | |

REPAIR PARTS FOR "O" BOYER HAMMER

| CODE | Symbol No. | No. Pieces | DESCRIPTION |
|-----------|------------|---------------|--|
| Airian | O-50 Comp. | 1 | Cylinder, complete |
| Airier | 0-51 | 1 | Cylinder Coupling Sleeve. |
| Airiate | 0-53 1/2 | 1 | Lock Sleeve Spring Clip |
| Airiness | 0-57 | 1 | Piston |
| Airlane | O-58 | 1 | Lock Sleeve. |
| Airless | 0-58 1/2 | 1 | Lock Sleeve Key |
| Airling | O-59 Round | 1 | Chisel Sleeve (Round) |
| Aisle | 0-60 Comp. | 1 | Valve, complete (60N, 61N, 63½, 68, 69). |
| Ajutage | O-60N | 1 | Valve Case |
| Akenium | O-61 N | 1 | Valve |
| Akimbo | 0-63 | 1 | Check Valve Case |
| Alabaster | 0-63 1/2 | 1 | Valve Case Chamber Head |
| Alabuga | 0-68N | 1 | Pin for O-63 ½. |
| Alacrity | 0-69 | 2 | Dowel Pins for O-60N |
| Aladag | O-70 Comp. | 1 | Handle, complete (O-70 to 78, inclusive) |
| Alajate | O-70-73 | 1 | Handle Forging with Throttle Tube. |

All other parts same as "F" Hammer, page 17.

REPAIR PARTS FOR "U" HAMMER

All other parts same as "O" Hammer, page 18.

REPAIR PARTS FOR "X" HAMMER

| Alarming Alarmist | X-50 Comp. X-57 | 1 | Cylinder, complete. |
|----------------------|--------------------|---|---------------------|
| Marinist | A-37 | 1 | Piston |

All other parts same as "O" Hammer, page 18.

REPAIR PARTS FOR "FF" STRAIGHT HANDLE STONE HAMMER

| Alaterne Alava Albacete Albatross Alberge Albicore Albicore Albino Albona Alborace Alborace Albugine | FF-50 FF-51 FF-53 ½ FF-57 FF-58 F-59 Round F-59 Hex. F-60 Comp. F-60N only F-61N F-63 ½ F-68N | Cylinder Comp. Cylinder Coupling Sleeve |
|--|--|---|
| Alcade Alcahest Alcaique Alcala Alchemist Alchemy Alcohoi Alcove | FF-70 F-71 ½ FF-72 FF-74 F-90 F-91 Round F-91 Hex. FF-98 | Handle, complete (FF-70, OO-71, F-71½, FF-72, FF-74, OO-78). Handle |

REPAIR PARTS FOR "OO" STRAIGHT HANDLE STONE HAMMER

| CODE | Symbol No. | No. Pieces | DESCRIPTION |
|-----------|-------------|---------------|---|
| Alcubilla | 00-50 | 1 | Cylinder Comp |
| Alcudia | 00-51 | 1 | Cylinder Coupling Sleeve |
| Aldego | 00-531/2 | 1 | Lock Sleeve Spring Clip |
| Alder | 00-57 | 1 | Piston |
| Alderman | OO-58 | 1 | Lock Sleeve |
| Aldern | 00-581/2 | 1 | Lock Sleeve Key |
| Aleberry | O-59 | 1 | Chisel Sleeve (Round) |
| Alecost | O-60N Comp | 1 | Valve, complete (60N, 61N, 63½, 68N, 69) |
| Alegar | O-60N only | 1 | Valve Case |
| Aleconner | 0-61N | 1 | Valve |
| Alegrana | 0-63 1/2 | 1 | Valve Case Chamber Head |
| Alehouse | 0-68N | 1 | Pin for 63 ½ |
| Alembic | O-69 | 2 | Dowel Pins for O-60N |
| Alembroth | 00-70 Comp. | 1 | Handle, complete (OO-70, 71, 72, 72½, 74, 78) |
| Alenois | 00-70 | 1 | Handle |
| Alert | 00-71 | 1 | Handle Dowel Pin |
| Alertness | 00-72 | 1 | Throttle Valve |
| Alesage | 00-721/2 | 1 | Throttle Opening Sleeve |
| Alfange | FF-74 | 1 | Throttle Valve Spring |
| Alfet | 00-78 | 1 | Valve Stop Pin |
| Algalie | O-90 | 1 | Spanner Wrench |
| Alganon | F-91 Round | 1 | Chisel Blank (Round) |
| Algarade | 00-98 | 1 | Cushion Bushing |
| Algates | 3-108 1/2 | 1 | Hose Nipple (1/4" Pipe Thread—7 Hose) |

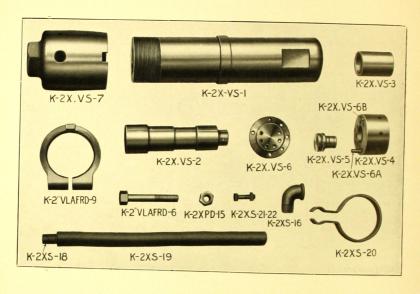
REPAIR PARTS FOR "UU" STRAIGHT HANDLE STONE HAMMER

| Algarian Algebra | UU-50 UU-57 | 1 Cylinder Comp |
|---------------------|----------------|-------------------|
| Algebraist | UU-98 | 1 Cushion Bushing |

All other parts same as "OO" Hammer

REPAIR PARTS FOR "XX" STRAIGHT HANDLE STONE HAMMER

All other parts same as "OO" Hammer

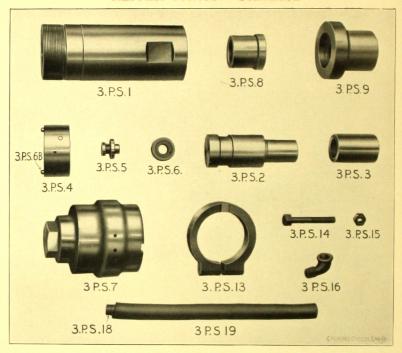


REPAIR PARTS FOR "KELLER" 2X VALVE SURFACER (Prices on Application.)

| | Pieces | DESCRIPTION |
|---|---------------------------------------|--|
| Kathaak K2XVS-1 Kathete K2XVS-2 Katoenz K2XVS-3 Katooge K2XVS-3 Katoes K2XVS-4 Katchip K2XVS-5 Kattath K2XVS-6A Katerig K2XVS-6B Katerig K2XVS-6A Kattpur K2XVS-7 Katylor K1½**VLAFRD Kauernb K2*VLAFRD Kaufbar K2XS-16 Kaufber K2XS-16 Kaufber K2XS-16 Kaufbur K2XS-19 Kaufzug K2XS-20 Kauzahn K2XS-21 Kayacks K2YS-29 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Cylinder. Piston. Chisel Bushing Valve Box Valve Valve Box Steady Pin, Long Valve Box Steady Pin, Long Valve Box Steady Pin, Short Valve Box Complete (K2XVS-4-5-6-6A-6B). Cylinder Head Air Strainer. Cylinder Head Clamp Cylinder Head Clamp Bolt. Nut. Service Elbow. Exhaust Hose Exhaust Hose Exhaust Hose Clamp. Exhaust Hose Clamp. Exhaust Hose Clamp. |

REPAIR PARTS FOR KELLER 2-X SURFACER FRAME

| CODE | Symbol No. | No. Pieces | DESCRIPTION |
|----------|-------------|---------------|--------------------------|
| Kraghops | K-2-XASF-1 | 1 | Base |
| Kragjast | K-2-XASF-4 | 1 | Hand Wheel |
| Kragmanx | K-2-XSF- 5 | 1 | Column |
| Kragsten | K-2-XSF- 6 | 1 | Cap Piece |
| Krakbeen | K-2-XSF- 7 | 4 | Small Rope Wheel |
| Krakboom | K-2-XSF- 8 | 3 | Small Rope Wheel Shaft |
| Kralrand | K-2-XSF- 9 | 6 | Split Pin |
| Krambend | K-2-XSF-10 | 1 | Top Race |
| Kramgood | K-2-XSF-11 | 1 | Bottom Race |
| Kramkind | K-2-XASF-12 | 1 | Hose Pulley. |
| Kramster | K-2-XASF-13 | 1 | Side Frame |
| Krambalk | K-2-XSF-14 | 2 | Side Bars |
| Krambust | K-2-XASF-15 | 10 | Split Pin |
| Krangeld | K-2-XASF-16 | 2 | Jamb Nut, 5/8-inch |
| Kranjest | K-2-XASF-17 | 1 | Hand Wheel Key |
| Kranzagg | K-2-XSF-18 | 1 | Drum |
| Kranzome | K-2-XSF-19X | 1 | Drum Shaft |
| Kranzist | K-2-XSF-20 | 1 | Drum Shaft Key |
| Krabblet | K-2-XSF-22 | 1 | Bolt, 5/8 x 5 3/4 inches |
| Krabselz | K-2-KASF-23 | 1 | Spacer |
| Krabspin | K-2-XASF-24 | 1 | Ratchet Pawl |
| Krabvorm | K-2-XASF-25 | 8 | Guide Rolls |
| Krachant | K-2-XASF-26 | 4 | Guide Rolls Shaft |
| Krachben | K-2-XSF-27 | 1 | Large Rope Wheel |
| Krachkos | K-2-XASF-28 | 1 | Large Rope Wheel Shaft |
| Krachdil | K-2-XASF-29 | 1 | Clamp Handle |
| Krachfiz | K-2-XASF-30 | 1 | Handle Bar |
| Krachgil | K-2-XASF-31 | 1 | Rivet Bearing. |
| Krachhoz | K-2-XASF-33 | 2 | Bolt, 5% x 63% inches |
| Krachjut | K-2-XASF-34 | 1 | Set Screw |
| Krachkis | K-2-XSF-35 | 3 | Nut, %-inch |
| Krachmut | K-2-XSF-36 | 1 | Distance Piece |
| Krachput | K-2-XSF-37 | | Wire Rope, 22 feet. |
| Krachrod | 2-ED-37 | 29 | Balls |
| Krachsit | K-2-XSF-38 | 1 | Column Set Serew |



REPAIR PARTS FOR NO. 3 PLAIN STROKE SURFACER
(Prices on Application.)

| CODE | Symbol No. | No. Pieces | DESCRIPTION |
|-----------|---------------|---------------|------------------------------------|
| Kedlack | 3-P S- 1 | 1 | Cylinder |
| Kedmark | 3-P S- 2 | 1 | Piston |
| Keelgat | 3-P S- 3 | 1 | Chisel Bushing |
| Keelhok | 3-P S- 4 | 1 | Valve Box |
| Keelrak | 3-P S- 5 | 1 | Valve |
| Keelson | 3-P S- 6 | 1 | Valve Box Top |
| Keeltuk | 3-P S- 6A | 2 | Steady Pin |
| Keepess | 3-P S- 4 Comp | . 1 | Valve Box Complete (3-PS 4-5-6-6A) |
| Keepsak / | 3-P S- 7 | 1 | Cylinder Head |
| Keepten | 3-P S- 8 | 1 | Cylinder Bushing |
| Keerbad | 3-P S- 9 | 1 | Nose Piece |
| Keerdam | 3-P S-10 | 1 | Leather Washer |
| Keerduk | 3-P S-12 | 1 | Air Strainer |
| Keering | 3-P S-13 | 1 | Cylinder Head Clamp |
| Keerlie | 3-P S-14 | 1 | Clamp Bolt |
| Keermut | 3-P S-15 | 1 | Clamp Bolt Nut |
| Keestut | 3-P S-16 | 1 | ½x¾" Service Ell |
| Keetbus | 3-P S-18 | 1 | 3/8" Exhaust Hose Nipple |
| Keetrex | 3-P S-19 | 1 | Exhaust Hose |

REPAIR PARTS FOR NO. 3 CRANE SURFACER FRAME

(Prices on Application.)

| | Symbol No. | Pieces | DESCRIPTION |
|-----------|----------------|--------|---------------------------|
| Kriegbarn | SD-20 | 1 | Platform |
| Kriegbest | SD-21 | 4 | Wheels (flange) |
| Kriegbunt | SD-22 | 2 | Axles |
| Krieghaft | SD-24 | 4 | Rail Clamp |
| Kriegseld | SD-25 | 2 | Rail Clamp Bolt |
| Kriegfust | SD-31 | 2 | Fire Pot Slides |
| Krieggort | SD-32 | 4 | Slide Bolts and Nuts |
| Krieghorn | SD-33 | 1 | Fire Pot |
| Krieglast | SD-34 | 1 | Grate |
| Kriegslob | SD-35 | 1 | Column Complete |
| Kriegszug | SD-36 | 1 | Column Cap |
| Krieklaar | SD-37 | 1 | Ball Collar. |
| Krielheid | SD-38 | 5 | Cable Sheave. |
| Kriemelig | SD-39 | 5 | |
| Kriemveld | SD-40 | 1 | Cable Sheave Shafts |
| Krijgerte | SD-42 | 2 | Arm Bracket, Column Clasp |
| Krijgseed | SD-42 | | Arm Bracket Clamps |
| Krijschen | SD-43 | 2 | Arm Rails |
| Krikentel | SD-44 SD-45 | 2 | Arm Separators |
| Krimisosp | SD-46 | 1 | Hook |
| Krimpentz | | 1 | End Separator |
| Krimperst | SD-50 | 2 | Trolley Cheeks |
| | SD-51 | 2 | Trolley Axles |
| Krimpilto | SD-52 | 2 | Trolley Wheels |
| Krimpster | SD-53 | 1 | Trolley Guide |
| Kringelno | SD-54 | 2 | Trolley Guide Shoes |
| Kringelig | SD-55 | 2 | Hammer Clamps |
| Kringloop | SD-56 | 2 | Hammer Clamp Bolts |
| Krishmant | SD-60 | 1 | Winding Drum |
| Kritarchy | SD-61 | 1 | Winding Drum Shaft |
| Kritikern | SD-62 | 1 | Winding Drum Gear |
| Kritiches | SD-63 | 1 | Winding Drum Pinion |
| Crittlerm | SD-64 | 1 | Pinion Shaft |
| Kritzelst | SD-65 | 1 | Ratchet |
| Kroegvera | SD-66 | 1 | Ratchet Handle |
| Croegstil | SD-67 | 1 | Ratchet Handle |
| Kroegmilt | SD-68 | 1 | Ratchet Pawl. |
| Croegomel | SD-69 | 2 | Ratchet Bracket. |
| Croeglamp | SD-70 | 2 | Winding Drum Brackets |
| Croegkopf | SD-71 | 1 | Pins. |
| Croeghall | SD-75 | 1 | Ratchet Handle Stud |
| Kroegfest | SD-76 | 130113 | %-inch Cable, 48 feet |
| Kroeggorn | SD-77 | | Cable Clamps |
| Kroegdamb | SD-78 | 1 | 14 feet of %-inch Hose |
| Kroegcart | SD-80 | 1 | Street Ell, 34-inch |
| Kroegbost | SD-80 | 2 | Hose Nipples, 34-inch |
| Kroegalok | SD-81 | 1 | nose Rod |
| | | 1 | Tool Bail |

